

= CONSTRUCTION JOINT

CONSTRUCTION JOINT OPTIONS

CORNER DETAIL (PLAN VIEW)

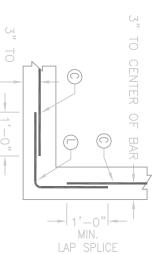
LIQUID-TIGHT JOINT YES 8

LIQUID-TIGHT JOINT OPTIONS NON-METALIC WATERSTOP

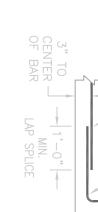
HYDROPHILIC WATERSTOP

(PVC)

2 IF SLAB AND WALL ARE POURED
SEPARATELY, THE SLAB SURFACE MUST
BE THOROUGHLY CLEANED WITH WATER
AND A WIRE BRUSH. THE SURFACE OF
THE JOINT SHALL BE KEPT MOIST
FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.



THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.



SLAB CORNER DETAILS RESTRAINING SLAB OPTIONS SEE PA-023 SEE PA-024

DESIGN STRENGTHS: WORKING STRESS DESIGN
Opsi
STEEL fs = DRAINAGE SHALL BE AWAY FROM THE WALL.
THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL SHALL
THE BACKFILL HEIGHT.

BE EQUAL

TO OR

GREATER THAN

GENERAL DESIGN NOTES:

·MAXIMUM FOOTING CONTACT PRESSURE IS 410 psf/ft.

 $f_{C}^{*} = 4,000 \text{ psi}$ 20,000 psi (GRADE 40)

WALL DESIGN LOADING: 313 STANDARD — LATERAL EARTH PRESSURE VALUES,

SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

*MANURE LOAD INSIDE = 65 psf/ft.

*SOIL BACKFILL LOAD OUTSIDE = 60 OR 75 psf/ft.

*SURCHARGE LOAD = 120 psf

*SOIL BACKFILL DENSITY = 110 pcf.

*WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

• CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS. • SUBSTITUTION OF GRADE 60 BARS IS PERMITTED. • MINIMUM SPLICE LENGTH FOR MARK (B) AND (C) BARS IS 12"

STEEL #4 CONCRETE

(0.668 LBS./FT)

LBS. CU. YDS.

(0.1461 CU.YDS./LIN.FT.)

ESTIMATED QUANTITIES

STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

WALL RESTRAINT REQUIREMENTS:
*5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5

NO SLAB NO SLAB	17 FEET 19 FEET 5 FEET 6 FEET NO SLAB NO SLAB	2 FEET 1 FOOT 0 FEET
	<u>EFP=60</u> <u>EFP=75</u>	
SLAB LENGTH FULL INSIDE LOAD	SLAB LENGTH NO INSIDE LOAD	BACKFILL HEIGHT (OUTSIDE LOAD)

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURAL, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717-2906

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DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.

BACKFILL TO THE TOP OF THE WALL IS RECOMMENDED FOR FROST PROTECTION.

NOTES:

MARK

QUAN

70

S

TOTAL

TOTAL LENGTH OF WALL

5'-7" ENGTH

STR

#4 BARS,

TOTAL LENGTH

STEEL TYPE

SCHEDULE

TYPE 2 BAR

(ADAPTED FROM WI-522, APRIL 2005)



COUNTY, PENNSYLVANIA

2' HIGH, 8" L-WALL (W/SURCHARGE)

Date <u>06/23/0</u>5